

What is Claimed Is:

1. Overload safety device for use in a press, comprising a driving device with a drive shaft, a slide for carrying out an oscillating movement, and a connecting rod configured to operatively connect the drive shaft with the slide and having a large and a small eye,

wherein the connecting rod has a pressure element disposed displaceably in a longitudinal direction of the connecting rod to act directly or indirectly upon a fluid such that, when a predetermined force acts upon the connecting rod, a pressure increase occurs in the fluid which is then guided to a pressure limiting valve to cause, when a predetermined pressure is exceeded, an interruption of the oscillating movement of the slide.

2. Device according to Claim 1, wherein the pressure element is arranged in one of the large and small eyes of the connecting rod.

3. Device according to Claim 2, wherein the pressure element is mounted in the one eye of the connecting rod on which the drive shaft is mounted.

4. Device according to Claim 1, wherein the pressure element is configured to act upon a pressure piston which then acts upon the fluid.

5. Device according to Claim 4, wherein the pressure piston is arranged in a cavity of an eye of the connecting rod and is sealed off with respect to the latter via a sealing device.

6. Device according to Claim 4, wherein the pressure piston has a substantially oval cross-section.

7. Device according to Claim 1, wherein the pressure element comprises two half shells and substantially completely surrounds the drive shaft.

8. Device according to Claim 7, wherein the two half shells are mutually connected by connecting elements.

9. Device according to Claim 1, wherein the pressure element comprises a restoring device for moving the pressure element from a triggered position into a basic position.

10. Device according to Claim 9, wherein the restoring device comprises at least one spring element.

11. Device according to Claim 9, wherein the restoring device comprises an air pump.

12. Device according to Claim 1, wherein the pressure element is arranged to be longitudinally displaceably guided with respect to the connecting rod via guiding elements.

13. Device according to Claim 1, wherein the fluid is a hydraulic medium.

14. Device according to Claim 13, wherein the fluid is oil.

15. Device according to Claim 3, wherein a bearing element is arranged between the drive shaft and the pressure element.

16. Device according to Claim 1, wherein the pressure limiting valve is operatively connected with at least one safety valve which, when responsive, at least one of uncouples a flywheel of the press and acts upon a brake which in turn acts upon the driving device.

17. Press having a driving device which has a drive shaft, a slide and a connecting rod operatively connecting the drive shaft with the slide, which connecting rod has a large eye and a small eye, and an overload safety device arranged in the connecting rod, according to Claim 1.

18. Press according to Claim 17, further comprising several slides and associated connecting rods, wherein each connecting rod has an overload safety device according to Claim 1, with the fluid of each of the devices being operatively connected with one another.